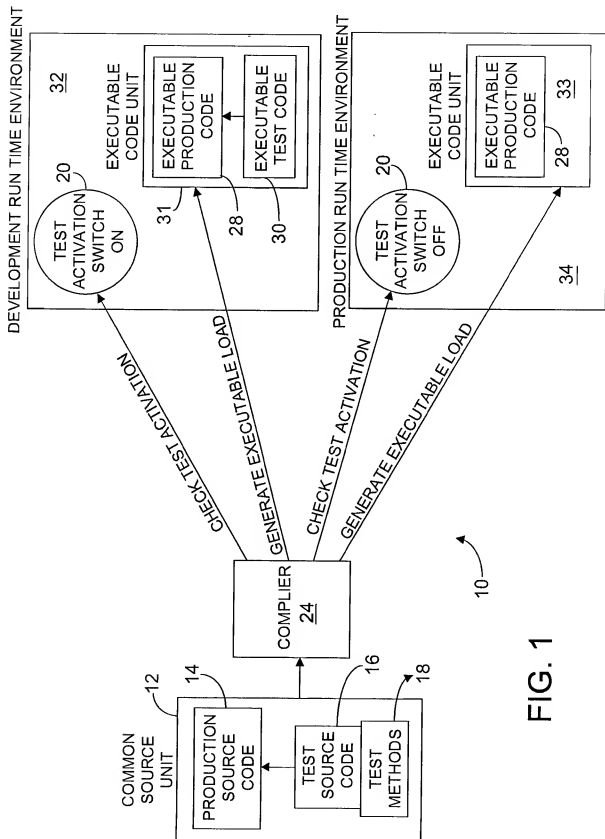


REPLACEMENT
SHEET

Application No: 10/723,769
Attorney Docket No: 13913-151001
Applicants: Andreas Blumenthal et al.
TESTING FLOW CONTROL AT TEST ASSERTION LEVEL
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REPLACEMENT SHEET

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```

14 {
  14a {
    * 1. productive class :
    * definition
    class OPERATIONS definition.
      public section.
        class-methods:
          ADD importing A type I
                      B type I
                      returning VALUE (RESULT) type I.
    endclass.

    14b {
      * implementation
      class OPERATIONS implementation.
        method ADD.
          RESULT = A + B.
        endmethod.
      endclass.
    }
  }

  16 {
    18a {
      * 2. test class:
      * definition
      class TEST_OPERATIONS definition for testing.
        public section.
          methods TEST_ADD for testing.
        endclass.

        * implementation
        class TEST_OPERATIONS implementation.

          method TEST_ADD.

            * test data: variable needed to store the result from the productive method:
            data: ACTUAL_RESULT type I.

            * call the method under test:
            ACTUAL_RESULT = OPERATIONS=>ADD ( A = 3 B = 5 ).

            18b {
              * compare the result with the expected value:
              CI_AUNIT_ASSERT=>ASSERT_EQUALS (
                ACT = ACTUAL_RESULT
                EXP = 8
                MSG = 'this is the message which occurs if the test failed'
              ).

              endmethod.
            }
          endclass.
        }
      }
    }
  }

```

FIG. 2

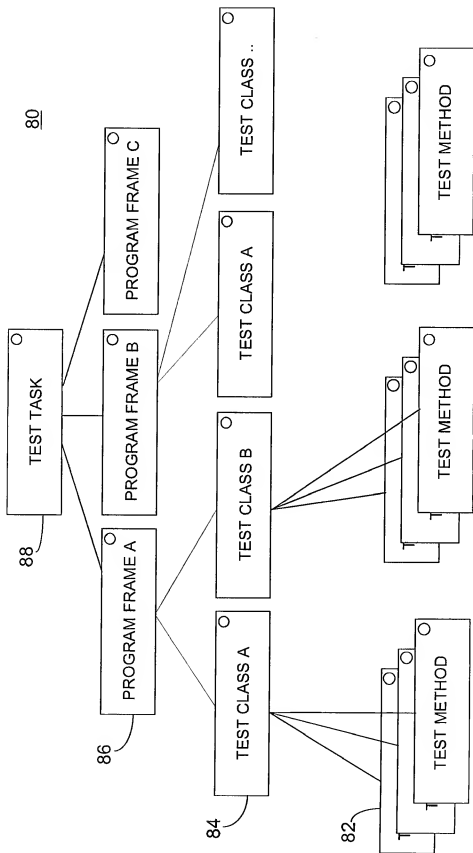


FIG. 3

56
ASSERT_EQUALS (ACT = ACTUAL RESULT
EXP = EXPECTED_RESULT
MSG = 'this test has failed'
QUIT = QUIT_VALUE).
57 58

Where QUIT_VALUE defines at which level the test flow should be interrupted:

- NO: continue the current test method.
- METHOD: interrupt the current test method.
- CLASS: interrupt the test class execution.
- PROGRAM: abandon all test class executions of the currently tested program frame.

FIG. 4

REPLACEMENT SHEET

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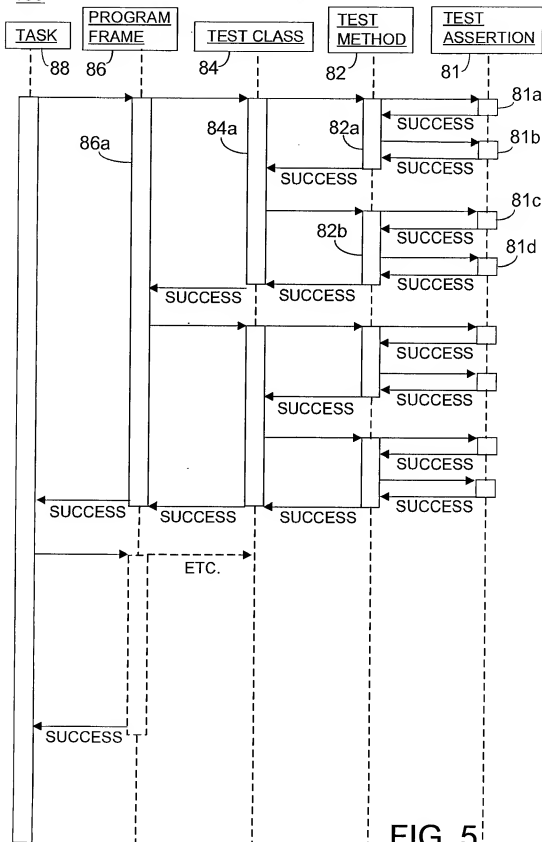


FIG. 5

200

